```
EEEEEEEEEE  XX      XX    AAAAAA     MM      MM  PPPPPPP    LL                     EEEEEEEEEE   SSSSSSSS
EEEEEEEEEE  XX      XX    AAAAAA     MM      MM  PPPPPPPP   LL                     EEEEEEEEEE   SSSSSSSS
EEEEEEEEEE  XX      XX    AAAAAA     MM      MM  PPPPPPPP   LL                     EEEEEEEEEE   SSSSSSSS
EE            XX  XX      AA    AA   MMMM  MMMM  PP     PP  LL                     EE              SS
EE            XX  XX      AA    AA   MMMM  MMMM  PP     PP  LL                     EE              SS
EE            XX  XX      AA    AA   MMMM  MMMM  PP     PP  LL                     EE              SS
EE              XX XX     AA    AA   MM MM MM MM PP     PP  LL                     EE              SS
EE              XX XX     AA    AA   MM MM MM MM PP     PP  LL                     EE              SS
EE              XX XX     AA    AA   MM  MM  MM  PP     PP  LL                     EE              SS
EEEEEEE           XX      AA    AA   MM      MM  PPPPPPP    LL                     EEEEEEE       SSSSS
EEEEEEE           XX      AA    AA   MM      MM  PPPPPPP    LL                     EEEEEEE       SSSSS
EEEEEEE           XX      AA    AA   MM      MM  PPPPPPP    LL                     EEEEEEE       SSSSS
EE              XX XX     AAAAAAAAAA MM      MM  PP         LL                     EE              SS
EE              XX XX     AAAAAAAAAA MM      MM  PP         LL                     EE              SS
EE            XX    XX    AA    AA   MM      MM  PP         LL                     EE              SS
EE            XX    XX    AA    AA   MM      MM  PP         LL                     EE              SS
EE            XX    XX    AA    AA   MM      MM  PP         LL                     EE              SS
EEEEEEEEEE  XX        XX  AA    AA   MM      MM  PP         LLLLLLLLLL             EEEEEEEEEE   SSSSSSSS
EEEEEEEEEE  XX        XX  AA    AA   MM      MM  PP         LLLLLLLLLL             EEEEEEEEEE   SSSSSSSS
EEEEEEEEEE  XX        XX  AA    AA   MM      MM  PP         LLLLLLLLLL             EEEEEEEEEE   SSSSSSSS
```

**FILE**ID**PEAK

```
PPPPPPP     EEEEEEEEEE    AAAAAA      KK        KK
PPPPPPP     EEEEEEEEEE    AAAAAA      KK        KK
PP     PP   EE           AA    AA     KK        KK
PP     PP   EE           AA    AA     KK        KK
PP     PP   EE           AA    AA     KK      KK
PPPPPPP     EEEEEEE      AA    AA     KKKKK
PPPPPPP     EEEEEEE      AA    AA     KKKKK
PP          EE          AAAAAAAAAA    KK    KK
PP          EE          AAAAAAAAAA    KK  KK
PP          EE          AA    AA      KK        KK
PP          EE          AA    AA      KK        KK      ....
PP          EEEEEEEEEE   AA    AA      KK        KK      ....
PP          EEEEEEEEEE   AA    AA      KK        KK      ....
```

```
FFFFFFFFFF   000000     RRRRRRR
FFFFFFFFFF   000000     RRRRRRR
FF          00    00    RR     RR
FF          00    00    RR     RR
FF          00    00    RR     RR
FFFFFFFF    00    00    RRRRRRR
FFFFFFFF    00    00    RRRRRRR
FF          00    00    RR  RR
FF          00    00    RR  RR
FF          00    00    RR    RR
FF          00    00    RR    RR
FF           000000     RR      RR
FF           000000     RR      RR
```

```
!File FPEAK.FOR
!       Version 'V04-000'
!
!******************************************************************************
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!******************************************************************************
!

        Subroutine PEAK(ITABLE,INPUT,INLAST,INPTR,OUTPUT,IDIMO,NPEAKS)
!A trivial peak-picking routine. The calling sequence is patterned
!after the LSPLIB routine PEAK.

        Integer*4 ITABLE(10),OUTPUT(2,IDIMO),INLAST,INPTR,IDIMO,NPEAK
        Integer*2 INPUT(1)
        Parameter NOISE = 5      !Noise value = 5 A/D units

!Initialize some parameters, if necesary
        If( NPEAKS .lt. 0 ) NPEAKS = 0
        If( INPTR  .lt. 0 ) INPTR  = 0

!First time thru?
        If( INPTR  .lt. INLAST .and. ITABLE(1) .eq. 0 ) Then
          INPTR = INPTR + 1
          ITABLE(1) = 1                     !Assume we're rising
          ITABLE(2) = 1                     !first point
          ITABLE(3) = INPUT(INPTR)
        End If
!Any data to process?
        If(INPTR .lt. INLAST ) Then
          Do 10 I = INPTR+1, INLAST
           If( ITABLE(1) .gt. 0 ) Then  !We're rising, look for a fall
            If( INPUT(I) .lt. ITABLE(3)-NOISE ) Then !We found a peak
              If( NPEAKS .lt. IDIMO ) Then !Any room to store it?
                NPEAKS = NPEAKS + 1
                OUTPUT(1,NPEAKS) = ITABLE(3)
                OUTPUT(2,NPEAKS) = ITABLE(2)
                ITABLE(1) = -1
```

```
            Else                               !No, tell user
               INPTR = I - 1
               NPEAKS = -IDIMO
               Return
            End If
         End If
         Else                              !We're falling, see if we found a valley
         If( INPUT(I) .gt. ITABLE(3)+NOISE )    ITABLE(1) = 1
         End If
         ITABLE(3) = INPUT(I)
10       ITABLE(2) = ITABLE(2) + 1
      End If

      INPTR = -1                           !Normal exit all data processed.
      Return

      End
```

XALINK
MAR

LABIOLINK
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DRMASTER
FOR

LPATEST
FOR

LABIOPEAK
FOR

LABIOSTRT
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XAMESSAGE
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FOR

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FOR

LBRDEMO
COM

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